



KDS/GMC

THREE PHASE MONOBLOC PUMPS



FEATURES

Flatter Efficiency Curve

Minimum variations in efficiency during entire operating range increases the utility of pumpset for variable conditions.

Wide Voltage Design

The motor is designed to withstand wide voltage fluctuations from 300 to 440 volts and reduces motor burning in low voltage.

Design to Prevent Overloading

Lesser chances of motor burning as motor did not get overloaded even if the pump is operated at a head lower than recommended and saving substantial cost from maintenance and breakdown.

Replaceable Wearing Parts

All wearing parts within the pumps are easily accessible and replaceable which provides ease of maintenance thereby extending the life of the pump.

Dynamically Balanced Rotating Parts

Minimum vibrations protect components from damages during the operations, consistent performance as concentricity is maintained.

CED – Cathodic Electro Deposition

CED is the latest coating technology for corrosion resistance with uniform coating, provides 5 times more protection over conventional painting, resulting in longer life. All major CI parts of Kirloskar pumps coming in contact with the water are CED coated.

Automatic Air Release

Eliminating the necessity of operating air release cock and ensures swifter and smoother operations.

High Efficiency And Energy Saving Design

Innovative design manufactured at state of art plant, delivers optimum efficiency at lower energy consumption resulting in significant cost savings.

TECHNICAL SPECIFICATION

Head Range	: Upto 76 meters
Discharge Range	: Upto 49 lps
Power Ratings	: 0.37 to 22 kW (0.5 to 30 HP)
Voltage Range	: 300 to 440 Volts (Three Phase)
Insulation	: B Class (upto 7.5 HP) / F Class (above 7.5 HP)
Protection	: IP 44 / IP 55

MATERIAL OF CONSTRUCTION

	GMC	KDS
Impeller	: Cast Iron/ Bronze/ Noryl	Cast Iron/ Bronze/ Stainless Steel
Delivery Casing	: Cast Iron	Cast Iron
Motor Body	: Cast Iron	Cast Iron
Pump Shaft	: Carbon Steel/ Stainless Steel	Carbon Steel/ Stainless Steel
Sealing	: Mechanical Seal	Gland Packed /Mechanical Seal

APPLICATIONS

- Air conditioning and refrigeration system.
- Cooling Towers.
- Clear water handling at high pressure in Industries.
- Irrigation in horticulture & agriculture.
- Fire fighting system.



PERFORMANCE CHART FOR 'KDS+ / KDS++ / GMC' SERIES, 2 POLE, MONOBLOC PUMPS, AT RATED VOLTAGE, 50 Hz FREQUENCY, THREE PHASE A.C. POWER SUPPLY																							
S. No.	Pump Model	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METERS																
		kW	HP	SUC.	DEL.		6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	40
							DISCHARGE IN LITRES PER SECOND																
1	KDS0510*	0.37	0.5	50	40	415	3.4	2.6	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	GMC-112*	0.75	1.02	50	50	415	6.9	5.5	3.9	2.0	-	-	-	-	-	-	-	-	-	-	-	-	
3	GMC-116++*	0.75	1.02	50	40	415	5.4	5.0	4.6	4.2	3.6	3.0	2.0	-	-	-	-	-	-	-	-	-	
4	GMC-123+*	0.75	1.02	32	25	415	-	-	4.0	3.6	3.2	2.7	2.2	1.6	0.9	-	-	-	-	-	-	-	
5	GMC-128+*	0.75	1.02	25	25	415	-	-	-	-	1.9	1.8	1.7	1.5	1.4	1.1	0.8	0.4	-	-	-	-	
6	GMC-134*	0.75	1.02	25	25	415	-	-	-	-	-	1.7	1.6	1.5	1.4	1.2	1.0	0.9	0.7	0.4	-	-	
7	GMC-1.514+*	1.1	1.5	50	50	415	-	8.3	7.1	5.7	3.6	-	-	-	-	-	-	-	-	-	-	-	
8	GMC-1.522++*	1.1	1.5	50	40	415	-	6.3	5.9	5.5	5.1	4.5	3.9	3.1	1.8	-	-	-	-	-	-	-	
9	GMC-1.525+*	1.1	1.5	50	40	415	2.6	2.6	2.5	2.5	2.4	2.3	2.2	2.1	2.0	1.8	1.6	-	-	-	-	-	
10	GMC-1.540*	1.1	1.5	32	25	415	-	-	-	-	-	-	-	-	2.0	1.9	1.7	1.6	1.5	1.3	1.1	0.9	0.6
11	KDS-212+**	1.5	2	80	80	415	14.1	12.4	10.5	7.5	-	-	-	-	-	-	-	-	-	-	-	-	
12	KDS-216+***	1.5	2	65	50	415	-	11.0	10.0	8.8	7.1	4.0	-	-	-	-	-	-	-	-	-	-	
13	KDS-225+***	1.5	2	50	40	415	-	5.3	5.1	4.9	4.7	4.5	4.2	3.9	3.5	3.1	-	-	-	-	-	-	
14	KDS-235+*	1.5	2	50	40	415	-	4.1	4.1	4.1	4.0	3.9	3.7	3.5	3.3	3.0	2.9	2.3	2.0	1.3	0.5	-	
15	KDS-314+*	2.2	3	80	80	415	19.0	18.0	16.4	14.5	12.0	-	-	-	-	-	-	-	-	-	-	-	
16	KDS-318+***	2.2	3	80	65	415	-	13.4	12.6	11.7	10.7	9.2	7.5	-	-	-	-	-	-	-	-	-	
17	KDS-325+***	2.2	3	65	50	415	-	-	9.2	8.8	8.4	7.9	7.4	7.0	6.4	5.8	4.9	-	-	-	-	-	
18	KDS-335+**	2.2	3	50	40	415	-	-	-	5.7	4.9	4.8	4.7	4.6	4.4	4.2	4.0	3.8	3.6	3.2	2.7	2.0	
19	KDS-515+*	3.7	5	100	100	400	32.8	31.0	28.0	24.2	19.0	12.5	-	-	-	-	-	-	-	-	-	-	
20	KDS-520+**	3.7	5	80	80	400	24.0	23.0	22.0	20.8	19.5	17.9	16.0	14.0	11.0	-	-	-	-	-	-	-	
21	KDS-527+***	3.7	5	80	65	400	-	-	-	-	-	14.3	13.5	12.5	11.6	10.3	8.7	6.4	-	-	-	-	
22	KDS-538+**	3.7	5	65	50	400	-	-	-	-	-	-	-	8.5	8.4	8.3	8.1	7.8	7.6	7.1	6.5	5.8	
23	KDS-822+***	5.5	7.5	100	100	400	-	-	-	27.3	25.6	24.0	22.2	20.1	17.6	14.5	-	-	-	-	-	-	
24	KDS-830+***	5.5	7.5	80	65	400	-	-	-	-	-	19.0	18.2	17.3	16.4	15.4	14.2	12.7	11.1	-	-	-	
25	KDS-837	5.5	7.5	65	65	400	-	-	-	-	-	-	-	-	-	12.6	12.5	12.2	11.8	11.1	10.3	9.0	
26	KDS-1030+***	7.5	10	100	100	415	-	-	-	32.0	31.0	29.8	28.5	27.0	25.0	23.5	21.0	18.0	-	-	-	-	
27	KDS-1040+**	7.5	10	80	65	415	-	-	23.5	23.0	22.6	22.2	21.6	20.9	20.3	19.5	18.7	17.9	17.0	15.7	14.6	13.4	9.6
28	KDS-1331+**	9.3	12.5	100	100	415	-	-	35.5	35.0	34.5	34.1	33.6	33.0	32.0	30.8	28.0	24.0	19.0	-	-	-	
29	KDS-1537+**	11	15	100	100	415	-	-	36.5	36.4	36.2	36.1	36.0	35.9	35.6	35.2	34.8	33.7	31.5	28.0	24.2	16.0	-
30	KDS-2030+*	15	20	125	125	415	-	-	-	-	-	-	49.0	47.0	45.0	42.0	39.0	35.0	30.0	21.0	-	-	

PERFORMANCE CHART FOR 'KDS+ / KDS++ / GMC' SERIES, 2 POLE, MONOBLOC PUMPS, AT RATED VOLTAGE, 50 Hz FREQUENCY, THREE PHASE A.C. POWER SUPPLY																							
S. No.	Pump Model	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METERS																
		kW	HP	SUC.	DEL.		14	16	18	20	22	24	26	28	30	32	34	36	40	44	48	52	56
DISCHARGE IN LITRES PER SECOND																							
31	KDS-550+*	3.7	5	50	40	400	-	-	-	-	-	-	-	-	-	-	-	4.1	3.7	3.3	2.7	2.0	-
32	KDS-844	5.5	7.5	65	65	400	-	-	-	-	-	-	10.3	9.9	9.5	9.0	8.4	7.1	4.7	-	-	-	-
33	KDS-852+*	5.5	7.5	65	50	400	-	-	-	-	-	-	-	-	8.6	8.3	8.1	7.5	6.8	5.9	4.5	-	-
34	KDS-1050+**	7.5	10	65	65	415	-	-	-	-	-	-	12.5	12.2	12.0	11.7	11.4	10.7	9.6	8.1	6.0	-	-
35	KDS-1348+*	9.3	12.5	80	65	415	-	-	-	19.5	19.2	19.0	18.5	18.2	17.5	17.3	16.5	15.8	14.3	11.9	6.0	-	-
36	KDS-1360*	9.3	12.5	65	50	415	-	-	-	-	-	-	-	-	12.1	11.8	11.3	10.8	10.0	9.3	8.3	-	-
37	KDS-1555+**	11	15	80	65	415	-	-	-	19.9	19.8	19.6	19.5	19.4	19.2	18.8	18.5	17.4	16.0	14.5	12.2	-	-
38	KDS-2050+**	15	20	100	80	415	35.0	34.2	33.8	33.0	32.2	31.9	30.4	29.8	29.5	28.8	28.0	27.0	25.0	22.5	19.4	13.0	-

Note:

* Marked pumps are ISI certified and ** Marked pumps are star rated.

KDS-128+ can also be offered with pipe size 40x40 mm, 50x40 mm. KDS-318+ can also be offered with pipe size 65x50 mm.

All the pump set from 0.5 H.P To 1.5 H.P in mechanical seal arrangement .

2 H.P to 20 H.P in mechanical seal & gland pack arrangement except - KDS-212+ it is supplied only in mechanical seal arrangement.

KDS-2030+ & KDS-3052 are supplied with gland packed arrangement.

Performance applicable to liquid of specific gravity 1 and viscosity as of water.



PERFORMANCE CHART FOR 'KDS+ / KDS++ / GMC' SERIES, 2 POLE, MONOBLOC PUMPS, AT RATED VOLTAGE, 50 Hz FREQUENCY, THREE PHASE A.C. POWER SUPPLY																							
S. No.	Pump Model	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METERS																
		kW	HP	SUC.	DEL.		26	28	30	32	34	36	40	44	48	52	56	60	64	68	72	76	80
DISCHARGE IN LITRES PER SECOND																							
39	KDS-1065+	7.5	10	65	50	415	-	-	-	-	-	-	7.8	7.4	6.9	6.4	5.8	5.1	4.3	3.0	-	-	-
40	KDS-1570+*	11	15	65	50	415	-	13.4	13.2	13.0	12.8	12.7	12.5	11.7	11.5	10.7	9.7	9.0	8.0	6.5	-	-	-
41	KDS-1575+	11	15	65	50	415	-	-	-	-	-	-	-	-	-	8.1	7.7	7.4	6.9	6.4	5.8	4.9	-
42	KDS-2560+	18.5	25	100	80	415	-	-	-	-	-	-	-	-	24.5	22.0	18.6	13.0	-	-	-	-	-
43	KDS-3052	22	30	100	80	415	-	-	-	-	-	44.2	43.0	40.0	33.0	-	-	-	-	-	-	-	-
44	KDS-3068+	22	30	100	80	415	-	-	-	-	-	-	-	-	28.2	26.5	24.5	21.5	17.5	10.0	-	-	-

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